

111TH CONGRESS
1ST SESSION

H. R. 2569

To reauthorize surface transportation research, development, and technology transfer activities, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MAY 21, 2009

Mr. WU (for himself, Mr. GORDON of Tennessee, Ms. EDDIE BERNICE JOHNSON of Texas, Mr. LIPINSKI, and Mr. CARNAHAN) introduced the following bill; which was referred to the Committee on Science and Technology

A BILL

To reauthorize surface transportation research, development, and technology transfer activities, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. FINDINGS.**

4 Congress finds the following:

5 (1) A comprehensive and coordinated research
6 agenda is required to guide all Department of
7 Transportation research, development, and tech-
8 nology transfer programs on the focus areas of liv-
9 ability, sustainability, and performance for the sur-

1 face transportation system. The Department cur-
2 rently lacks a research, development, and technology
3 transfer strategic plan with quantifiable goals, ex-
4 pected outcomes, implementation strategies, and per-
5 formance measures.

6 (2) The surface transportation sector contrib-
7 utes 28 percent of the total United States carbon
8 emissions. To mitigate the impact of the surface
9 transportation sector on the climate, the Depart-
10 ment's Office of Climate Change and Environment
11 should increase research efforts on effective strate-
12 gies to reduce emissions from surface transportation
13 infrastructure.

14 (3) Coordinated research and technology trans-
15 fer on pavement and paving practices is essential to
16 developing roads that are more durable, consume
17 less energy in construction and maintenance, and
18 are less disruptive to the environment.

19 (4) Technology transfer is an integral part of
20 research and engineering. Additional efforts are re-
21 quired to ensure that successful research results are
22 deployed to the field.

23 (5) The University Transportation Center
24 (UTC) program conducts important research and
25 trains future transportation professionals. However,

1 the system could be better integrated into the De-
2 partment of Transportation research and develop-
3 ment activities.

4 **SEC. 2. STRATEGIC PLAN.**

5 (a) IN GENERAL.—The Administrator shall develop
6 annually a comprehensive strategic plan to guide surface
7 transportation research, development, and technology
8 transfer activities within and funded by the Department
9 for the 3-year period beginning with the upcoming fiscal
10 year. Such strategic plan shall include—

11 (1) the focus areas of national importance that
12 such activities will address, including community liv-
13 ability, sustainability, and performance measures for
14 transportation systems;

15 (2) quantifiable goals, expected outcomes, im-
16 plementation strategies, timetables, and performance
17 measures for each such focus area;

18 (3) the identification of stakeholders and their
19 role in identifying research needs and priorities; and

20 (4) specific activities for technology transfer
21 and the application and utilization of research re-
22 sults.

23 (b) SUBMISSION.—Beginning with the first submis-
24 sion after the date of enactment of this Act of the Presi-
25 dent's annual budget request to Congress, and annually

1 thereafter, the Administrator shall submit to the appro-
2 priate congressional committees the strategic plan devel-
3 oped under subsection (a) and shall make such plan avail-
4 able to the public on the Administration's Web site.

5 **SEC. 3. UTC PROGRAM MANAGEMENT.**

6 (a) REVIEW PROCESS.—

7 (1) IN GENERAL.—The Administrator shall de-
8 velop and execute a review process to assess the per-
9 formance of each UTC.

10 (2) REVIEW CRITERIA.—Not later than 1 year
11 after the date of enactment of this Act, the Adminis-
12 trator shall develop and make available to UTCs and
13 the public the criteria that will be used in the review
14 process under paragraph (1). Such criteria shall, at
15 a minimum, be consistent with the performance
16 measures identified in the strategic plan under sec-
17 tion 2.

18 (3) TIMING.—The Administrator shall develop
19 and execute the review process under paragraph (1)
20 in such a manner that all UTCs are reviewed during
21 a 3-year period with the number of UTCs being re-
22 viewed dispersed evenly throughout such period.

23 (4) TRANSPARENCY.—The Administrator shall
24 make results of the review process for each UTC

1 available to the public on the Administration’s Web
2 site.

3 (b) INTERNSHIP GRANT PROGRAM.—To carry out
4 the objective of expanding the transportation-related sci-
5 entific and technical workforce, the Administrator may es-
6 tablish a grant program to fund internships for students
7 participating in the UTC program at State departments
8 of transportation, metropolitan planning organizations,
9 and other appropriate organizations as identified by the
10 Administrator.

11 (c) REPORTS.—

12 (1) ANNUAL.—The Administrator shall submit
13 to the appropriate congressional committees and
14 make available to the public on the Administration’s
15 Web site an annual report on the UTC program, de-
16 tailing—

17 (A) the activities of the UTCs during the
18 previous year and how such activities reflect the
19 priorities in the strategic plan;

20 (B) the results of the reviews conducted
21 during the previous year;

22 (C) the progress of UTCs toward meeting
23 the goals and performance measures identified
24 in the strategic plan developed under section 2;
25 and

1 (D) information about any grants awarded
2 under subsection (b).

3 (2) MATCHING FUND RECOMMENDATION.—

4 Within 6 months after the date of enactment of this
5 Act, the Administrator shall submit a report to the
6 appropriate congressional committees with rec-
7 ommendations concerning the appropriate require-
8 ment under section 5506(j) of title 49, United
9 States Code, for the Federal share of costs for ac-
10 tivities carried out using a grant awarded under sec-
11 tion 5506 of such title.

12 (3) EXTENSION CENTERS.—

13 (A) IN GENERAL.—Within 6 months after
14 the date of enactment of this Act, the Adminis-
15 trator, in consultation with the Director of the
16 National Institute of Standards and Tech-
17 nology, shall submit a report to Congress on
18 how best to strengthen facilitation of transpor-
19 tation-related technology transfer, including
20 through the potential establishment of transpor-
21 tation technology extension centers at UTCs.

22 (B) CONTENTS.—In such report, the Ad-
23 ministrator shall—

24 (i) assess the role of UTCs to enable
25 workforce education in their regional

1 transportation communities and to pro-
2 mote the deployment and transfer of new
3 transportation technology, tools, tech-
4 niques, and methods; and

5 (ii) include an operational plan, iden-
6 tify the recipients of technical assistance
7 provided by UTCs, and identify the needs
8 of those recipients.

9 **SEC. 4. VISITING COMMITTEE ON TRANSPORTATION RE-**
10 **SEARCH.**

11 (a) IN GENERAL.—The Secretary shall establish a
12 visiting committee on surface transportation research (in
13 this Act referred to as the “Committee”), which shall re-
14 view and make recommendations regarding the quality of
15 the surface transportation research, development, and
16 technology transfer activities being carried out by the De-
17 partment, including the development and execution of the
18 strategic plan under section 2 and the coordination of such
19 activities by the Administrator.

20 (b) MEMBERSHIP.—The Committee shall be com-
21 posed of 15 members appointed by the Secretary. In mak-
22 ing such appointments, the Secretary shall—

23 (1) consider recommendations submitted by the
24 National Academies, professional societies, business

1 associations, labor associations, and other appro-
2 priate organizations;

3 (2) to the extent practicable, ensure that mem-
4 bers do not have any conflicts of interest;

5 (3) not appoint employees of the Federal Gov-
6 ernment;

7 (4) ensure that members are eminent in rel-
8 evant fields, such as transportation research, trans-
9 portation engineering, product development, labor,
10 education, transportation consulting, environment,
11 or State or local government; and

12 (5) select members to provide adequate rep-
13 resentation of a cross-section of—

14 (A) surface transportation researchers, de-
15 cisionmakers at the State and local levels of
16 government, transportation practitioners, and
17 others in the transportation research, develop-
18 ment, and technology user community; and

19 (B) expertise in the focus areas of national
20 importance.

21 (c) TERMS.—

22 (1) IN GENERAL.—Each member of the Com-
23 mittee shall be appointed for a term of 3 years, ex-
24 cept as provided in paragraphs (2) and (3).

1 (2) TERMS OF INITIAL APPOINTEES.—As des-
2 ignated by the Secretary at the time of appointment,
3 of the members first appointed—

4 (A) 5 members shall be appointed for a
5 term of 1 year;

6 (B) 5 members shall be appointed for a
7 term of 2 years; and

8 (C) 5 members shall be appointed for a
9 term of 3 years.

10 (3) VACANCIES.—Any member appointed to fill
11 a vacancy occurring before the expiration of the
12 term for which the member's predecessor was ap-
13 pointed shall be appointed only for the remainder of
14 such term.

15 (4) ROTATION.—Any person who has completed
16 2 consecutive full terms of service on the Committee
17 shall thereafter be ineligible for appointment during
18 the 1-year period following the expiration of the sec-
19 ond such term.

20 (d) MEETINGS.—

21 (1) IN GENERAL.—The Committee shall meet
22 at least twice each year at the call of the Chair-
23 person and, in addition, whenever one-third of the
24 members of the Committee so request in writing.

1 (2) NOTICE.—Each member of the Committee
2 shall be given appropriate notice of the call of such
3 meeting not less than 15 days prior to any meeting,
4 whenever possible.

5 (3) VIRTUAL MEETINGS; TELECONFERENCES.—
6 The Committee may conduct meetings using elec-
7 tronic methods if each member may fully participate
8 in the deliberations of the Committee in realtime.

9 (e) QUORUM.—A majority of the members of the
10 Committee shall constitute a quorum.

11 (f) RATES OF PAY; TRAVEL EXPENSES.—Each mem-
12 ber shall serve without pay, except that each member shall
13 receive travel expenses, including per diem in lieu of sub-
14 sistence, in accordance with applicable provisions under
15 subchapter I of chapter 57 of title 5, United States Code.

16 (g) SUBCOMMITTEES.—

17 (1) EXECUTIVE COMMITTEE.—The Committee
18 shall have an executive committee and may delegate
19 to it or to the Secretary such of the powers and
20 functions granted to the Committee by this Act as
21 it determines appropriate.

22 (2) ADDITIONAL COMMITTEES.—The Com-
23 mittee is authorized to appoint from among its mem-
24 bers such other committees as it determines nec-
25 essary and to assign to committees so appointed

1 such survey and advisory functions as the Com-
2 mittee deems appropriate to assist it in exercising its
3 powers and functions under this Act.

4 (h) CHAIRPERSON.—

5 (1) ELECTION.—The election of the Chair-
6 person and Vice Chairperson of the Committee shall
7 take place at each annual meeting occurring in an
8 even-numbered year.

9 (2) SUBSTITUTION.—The Vice Chairperson
10 shall perform the duties of the Chairperson in the
11 absence of the Chairperson.

12 (3) VACANCY.—In case a vacancy occurs in the
13 chairpersonship or vice chairpersonship, the Com-
14 mittee shall elect a member to fill such vacancy.

15 (i) REPORT.—

16 (1) ANNUAL.—

17 (A) IN GENERAL.—Not later than 30 days
18 after the submittal to Congress of the Presi-
19 dent's annual budget request in each year, the
20 Committee shall transmit an annual report to
21 the Secretary for submission to the appropriate
22 congressional committees.

23 (B) CONTENTS.—Such report shall deal
24 essentially, though not necessarily exclusively,
25 with policy issues or matters which affect the

1 surface transportation research, development,
2 and technology transfer activities at the De-
3 partment. Each such report shall comment on
4 the strategic plan developed under section 2.
5 Each such report shall also identify future
6 areas of priority surface transportation research
7 for the Department.

8 (2) ADDITIONAL.—The Committee shall trans-
9 mit to the Secretary and the appropriate congres-
10 sional committees such additional reports on specific
11 policy matters as it determines appropriate.

12 **SEC. 5. OFFICE OF CLIMATE CHANGE AND ENVIRONMENT.**

13 Section 102(g) of title 49, United States Code, is
14 amended—

15 (1) in paragraph (1) in the matter preceding
16 subparagraph (A), by striking “Department” and in-
17 serting “Research and Innovative Technology Ad-
18 ministration in the Department”;

19 (2) by redesignating paragraph (2) as para-
20 graph (7);

21 (3) by inserting after paragraph (1) the fol-
22 lowing new paragraphs:

23 “(2) IMPACT REDUCTION RESEARCH ACTIVI-
24 TIES.—

1 “(A) IN GENERAL.—The Office established
2 under paragraph (1) shall fund or coordinate
3 research, development, and technology transfer
4 activities focused on—

5 “(i) reducing vehicle miles traveled;

6 “(ii) reducing congestion;

7 “(iii) reducing construction and main-
8 tenance-related emissions and energy con-
9 sumption; and

10 “(iv) in coordination with the Envi-
11 ronmental Protection Agency and the De-
12 partment of Energy, assessing consumer
13 acceptance of and infrastructure needs for
14 alternative fuels and improved vehicle tech-
15 nology and other strategies to reduce
16 greenhouse gas emissions and conserve en-
17 ergy arising from surface transportation
18 infrastructure, operation, and use.

19 “(B) ACTIVITIES.—Research activities
20 shall include the following:

21 “(i) Assessments of the impact, cost-
22 effectiveness, and collateral benefits of
23 emissions and energy reduction strategies.

24 “(ii) The development of technologies,
25 tools, and techniques to reduce emissions

1 and energy consumption throughout the
2 life-cycle of transportation infrastructure.

3 “(iii) Congestion reduction and speed
4 management strategies.

5 “(iv) Assessments of the impact of
6 land use change on surface emissions and
7 other factors, such as congestion, mobility,
8 and accessibility, and barriers to land use
9 change.

10 “(v) Infrastructure requirements for
11 alternative fuels and vehicles.

12 “(vi) Traveler behaviors with respect
13 to mode-choice, response to transportation
14 pricing scheme, nonmotorized travel, and
15 other emissions reducing strategies.

16 “(vii) Emissions and energy reduction
17 strategies for freight transportation, in-
18 cluding mode shifts, freight infrastructure
19 projects, and the effects of land use on
20 freight movement.

21 “(3) ADAPTATION.—The Office shall fund or
22 coordinate research on the impacts of climate change
23 on surface transportation infrastructure to under-
24 stand and assess how climate change and variability

1 may affect transportation operation and infrastruc-
2 ture.

3 “(4) ASSESSMENT.—

4 “(A) IN GENERAL.—The Office shall as-
5 sess current and historical surface transpor-
6 tation infrastructure and fuel demand manage-
7 ment strategies that have been implemented at
8 the local, State, and national levels for their so-
9 cial, economic, and environmental costs and
10 benefits.

11 “(B) PUBLIC ACCESSIBILITY.—The results
12 of such assessments shall be made publicly
13 available through the Administration’s Web
14 site.

15 “(5) MODELING.—The Office, in consultation
16 with the Environmental Protection Agency and other
17 Federal agencies, shall support the development of
18 more accurate tools and models for quantifying mo-
19 bile emissions and evaluating surface transportation
20 emissions reductions strategies. The tools and mod-
21 els shall incorporate such factors as—

22 “(A) vehicle speed;

23 “(B) traffic flow;

24 “(C) land use;

25 “(D) nonmotorized travel;

1 “(E) transit use;
 2 “(F) traveler behavior; and
 3 “(G) commercial traffic and freight move-
 4 ment.

5 “(6) PUBLIC ACCESSIBILITY.—The results of
 6 the research and development carried out under this
 7 subsection shall be made publicly available to na-
 8 tional, State, and local transportation planners and
 9 decisionmakers.”.

10 **SEC. 6. REGIONAL GREEN TRANSPORTATION RESEARCH**
 11 **CENTERS.**

12 (a) ESTABLISHMENT.—Subchapter I of chapter 55 of
 13 title 49, United States Code, is amended by inserting after
 14 section 5505 the following new section:

15 **“SEC. 5505A. REGIONAL GREEN TRANSPORTATION RE-**
 16 **SEARCH CENTERS.**

17 “(a) GREEN TRANSPORTATION INFRASTRUCTURE
 18 RESEARCH AND TECHNOLOGY TRANSFER.—The Adminis-
 19 trator shall make grants to institutions of higher edu-
 20 cation or consortia thereof to establish and operate univer-
 21 sity transportation centers to carry out research, develop-
 22 ment, and technology transfer activities in the field of
 23 green transportation infrastructure.

24 “(b) OBJECTIVES.—The purpose of centers estab-
 25 lished pursuant to this section shall be to—

1 “(1) generate innovative and cost-effective ap-
2 proaches to mitigating environmental impacts
3 throughout the lifecycle of transportation infrastruc-
4 ture;

5 “(2) develop holistic approaches to integrating
6 green infrastructure into existing wastewater man-
7 agement systems;

8 “(3) promote adoption of innovative green
9 transportation infrastructure systems by State and
10 local governments and the private sector; and

11 “(4) manage technology transfer programs to
12 disseminate information on best management prac-
13 tices in the area of green transportation infrastruc-
14 ture to State and local governments and the private
15 sector.

16 “(c) SELECTION OF GRANT RECIPIENTS.—

17 “(1) APPLICATIONS.—In order to be eligible to
18 receive a grant under this section, a nonprofit insti-
19 tution of higher learning or consortia thereof shall
20 submit to the Administrator an application that is in
21 such form and contains such information as the Ad-
22 ministrator may require.

23 “(2) REGIONAL CENTERS.—To the greatest ex-
24 tent practicable, the Administrator shall ensure that
25 there is at least one grant recipient from each of the

1 10 United States Government regions that comprise
2 the Standard Federal Regional Boundary System.

3 “(3) SELECTION CRITERIA.—Except as other-
4 wise provided by this section, the Administrator
5 shall select each recipient of a grant under this sec-
6 tion through a merit-reviewed competitive process on
7 the basis of the following:

8 “(A) Demonstrated expertise in transpor-
9 tation research and environmental impacts of
10 transportation infrastructure.

11 “(B) Demonstrated research capacity and
12 technology transfer resources.

13 “(C) Existing or proposed partnerships
14 with State and local governments and private
15 industry involved in transportation-related con-
16 struction, environmental impact mitigation, or
17 other areas related to green transportation in-
18 frastructure research.

19 “(D) Capability to provide leadership in
20 developing national best management practices,
21 regional best management practices, or both in
22 the field of green transportation infrastructure.

23 “(E) Expertise in specific regional climate
24 characteristics which impact the effectiveness of

1 green transportation infrastructure technologies
2 and practices.

3 “(F) Demonstrated ability to disseminate
4 results of research and education programs
5 through a statewide or regionwide continuing
6 education program.

7 “(G) The strategic plan the recipient pro-
8 poses to carry out under the grant.

9 “(d) ACTIVITIES.—The types of activities the Sec-
10 retary may support under this section include the fol-
11 lowing:

12 “(1) Research and development of innovative
13 technologies, construction techniques, or best man-
14 agement processes that mitigate the environmental
15 impact of transportation infrastructure, including—

16 “(A) assessments of the life-cycle environ-
17 mental impact of local existing or planned
18 transportation infrastructure;

19 “(B) integration of green transportation
20 infrastructure elements into existing transpor-
21 tation or waste management systems; and

22 “(C) research, development, testing, and
23 evaluation of new technologies or best manage-
24 ment practices.

1 “(2) Establishment and operation of a regional
2 technology transfer program to disseminate informa-
3 tion on new technologies and best management prac-
4 tices to State and local governments, institutions of
5 higher education, and private industry in the region.

6 “(3) Study of the impact of State, local, and
7 Federal regulations on the implementation of green
8 transportation infrastructure technologies and prac-
9 tices. These studies shall include collaboration with
10 appropriate Federal agencies to evaluate the effect
11 of and possible changes to Federal and State regula-
12 tions that impede implementation of green transpor-
13 tation infrastructure.

14 “(4) Public education efforts to raise awareness
15 of green transportation infrastructure technologies,
16 including activities to raise awareness and foster col-
17 laboration among regional governments, private in-
18 dustry, and other public and private stakeholders.

19 “(e) ANNUAL MEETING.—The Administrator shall
20 convene an annual meeting of the Centers established pur-
21 suant to this section in order to foster collaboration and
22 communication among Center participants and dissemi-
23 nate best management practices.

1 “(f) DEFINITION.—In this section, the term ‘green
2 transportation infrastructure’ includes infrastructure
3 that—

4 “(1) preserves and restores natural processes,
5 landforms (such as flood plains), natural vegetated
6 streamside buffers, wetlands, or other topographical
7 features that can slow, filter, and naturally store
8 stormwater runoff and floodwaters for future water
9 supply and recharge of natural aquifers;

10 “(2) utilizes natural design techniques that in-
11 filtrate, filter, store, evaporate, and detain water
12 close to its source;

13 “(3) minimizes the use of impervious surfaces
14 in order to slow or infiltrate precipitation;

15 “(4) minimizes life-cycle energy consumption,
16 including during construction, maintenance, use by
17 vehicles, and destruction and recycling; and

18 “(5) minimizes life-cycle air pollution.”.

19 (b) CONFORMING AMENDMENT.—The table of sec-
20 tions for such subchapter is amended by inserting after
21 the item relating to section 5505 the following new item:

“5505A. Regional Green Transportation Research Centers.”.

22 **SEC. 7. NATIONAL RESEARCH COUNCIL REVIEW.**

23 The Administrator shall contract with the National
24 Research Council to conduct a review of the surface trans-
25 portation research, development, and technology transfer

1 activities at the Turner Fairbank Highway Research facil-
2 ity. Such review shall assess the technical merit of re-
3 search activities at such facility and the degree to which
4 such activities achieve stated objectives and desired impact
5 and make recommendations on how to improve the quality
6 and efficiency of such activities.

7 **SEC. 8. PAVEMENT RESEARCH, TECHNOLOGY TRANSFER,**
8 **AND EDUCATION PROGRAM.**

9 (a) ESTABLISHMENT.—The Administrator shall, in
10 consultation with appropriate Department modal agencies,
11 establish a pavement research, deployment, and education
12 program (in this section referred to as the “Program”).

13 (b) PURPOSE.—The purpose of the Program shall be
14 to—

15 (1) address the need to advance pavement re-
16 search; and

17 (2) coordinate technology transfer efforts re-
18 lated to paving materials.

19 (c) FUNCTION.—The Program, in coordination with
20 Department modal agencies, shall provide funding to
21 UTCs and other institutions of higher education to con-
22 duct research, development, and technology transfer ac-
23 tivities about paving materials and practices.

24 (d) ACTIVITIES.—Activities carried out by the Pro-
25 gram shall include—

1 (1) research and development of innovative
2 technologies and techniques to reduce the cost and
3 environmental impact of paving materials and prac-
4 tices, including research on—

5 (A) paving materials with improved dura-
6 bility;

7 (B) methods that decrease the energy use
8 in, and emissions resulting from, paving prac-
9 tices;

10 (C) paving materials that decrease environ-
11 mental impact;

12 (D) methods to decrease the overall life-
13 cycle cost of paving materials and practices;

14 (E) construction techniques to increase
15 safety and reduce construction time and traffic
16 disruption and congestion;

17 (F) pavement evaluation technologies and
18 techniques; and

19 (G) paving materials utilizing more recy-
20 cled and locally available natural material;

21 (2) effective technology transfer, including ef-
22 forts on—

23 (A) identifying and addressing barriers to
24 implementation for developed paving materials
25 and practices; and

1 (B) addressing the data needs of stake-
2 holders by developing independent studies and
3 assessments on topics, including—

- 4 (i) durability of paving technologies;
5 (ii) emissions from construction prac-
6 tices;
7 (iii) life-cycle cost-effectiveness of pav-
8 ing materials and strategies; and
9 (iv) environmental impact of paving
10 technologies; and

11 (3) establishing grants to institutions of higher
12 education to develop training and education pro-
13 grams for workforce professionals in the areas of
14 paving materials and practices.

15 (e) REPORT.—Not later than 6 months after the date
16 of enactment of this Act, the Administrator shall submit
17 a report to the appropriate congressional committees on
18 the results of the long-term pavement performance pro-
19 gram and how the Department intends to organize, main-
20 tain, and utilize the database.

21 **SEC. 9. DEFINITIONS.**

22 For purposes of this Act, the following definitions
23 apply:

24 (1) ADMINISTRATION.—The term “Administra-
25 tion” means the Research and Innovative Tech-

1 nology Administration in the Department of Trans-
2 portation.

3 (2) ADMINISTRATOR.—The term “Adminis-
4 trator” means the Administrator of the Research
5 and Innovative Technology Administration.

6 (3) APPROPRIATE CONGRESSIONAL COMMIT-
7 TEES.—The term “appropriate congressional com-
8 mittees” means the Committee on Science and Tech-
9 nology and the Committee on Transportation and
10 Infrastructure of the House of Representatives and
11 the Committee on Commerce, Science, and Trans-
12 portation of the Senate.

13 (4) DEPARTMENT.—The term “Department”
14 means the Department of Transportation.

15 (5) SECRETARY.—The term “Secretary” means
16 the Secretary of Transportation.

17 (6) UTC.—The term “UTC” means a univer-
18 sity transportation center established under section
19 5506 of title 49, United States Code.

20 **SEC. 10. AUTHORIZATION.**

21 (a) SURFACE TRANSPORTATION RESEARCH, DEVEL-
22 OPMENT, AND TECHNOLOGY PROGRAM.—To carry out
23 surface transportation research, development, and tech-
24 nology activities, such sums as are necessary shall be
25 available.

1 (b) UNIVERSITY TRANSPORTATION RESEARCH.—To
2 carry out section 5505 and section 5506 of title 49, United
3 States Code, such sums as are necessary shall be available.

○